

**Don Hardesty****Sandia National Labs / Dept. of Energy**

Deputy Director of Combustion and Industrial Technologies at the Combustion Research Facility (CRF) of Sandia National Laboratories.

Responsibility for line- and program-management of Sandia's Applied Science and Technology programs at the CRF, as well as for related new program development that exploits the unique capabilities of the Sandia and the CRF.

Technical areas of responsibility include advanced research and development in: hydrogen production, storage and utilization; automotive engine combustion; coal and bio-mass combustion and gasification; remote, laser-based diagnostics research and advanced sensor development for automotive, industrial, and homeland security applications; combustion synthesis of engineered materials; and energetic (explosive) materials.

Presently, actively engaged in representing DOE and supporting the California Hydrogen Highway Initiative as a Co-Chair of the Public Education Topic Team.

Publications in Technical Journals, Combustion & Industrial Symposia, and Sandia Technical reports in the following areas: applied sensors and optical diagnostics for particle-laden flows, optical sensors for steelmaking, bio-mass combustion, coal combustion, electrical aspects of combustion, excess enthalpy burners, high-pressure equations of state of liquids and explosives, ignition and detonation of explosives, unsteady combustion in rocket motors. Over 50 in number  
One Patent Disclosure...Particle-Sizing Pyrometer.

**Educational Background:**

University of Maryland, BSE in Mechanical Engineering, 1964

Princeton University, MSE in Aerospace and Mechanical Sciences, 1967

Princeton University, PHD in Aerospace and Mechanical Sciences, 1970

Thesis Title: "Unsteady Combustion in Gaseous Propellant Rocket Motors"

Yes, trained as a Rocket Scientist, in case we ever need one!!

Post Doc at Imperial College, London, Department of Chemical Engineering, Combustion Physics Group

Joined Sandia as a Member of Technical Staff, Explosive Physics, Sandia, New Mexico, 1972.

Transferred to Sandia/California in 1975 as MTS in Combustion Science

Promoted to Manager, Combustion Research Department in 1977

Presently Deputy Director, noted above Married, Wife Carol retired Computer Science from LLNL, Two married children, alas no grandkids yet!